

FARM-AG INTERNATIONAL (Pty) Ltd

P.O. Box 1523, Durban 4000

Head Office : 61 Marshall Dr., Old Mill Industrial Park, Mount Edgecombe **South Africa**

Registration Number: 2005/011761/07

Tel + 27 31 003 3486 • Fax + 27 31 502 5825

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Substance: picloram
Product Name: FARMAG PICLORAM 240 SL
Product Use: Herbicide
Creation Date: May 2011
Revision Date: September 2017

24 Hr Emergency Number: 082 771 2712**In case of poisoning:**

Poison Information Centre: 082 446 8946
 Tygerberg Hospital: (021) 931 6129
 Poison Emergency Enquiries (021) 689 5227

In case of Spillage:

HAZMAT: 0800 147 112

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**Use:** For the control of weeds**Formulation:** Soluble liquid 240 g/l**Hazardous ingredients of toxicological concern:**

<u>Inert:</u>	<u>concern:</u>	<u>% present:</u>
Picloram (as potassium salt)	irritant	± 24%
Reactant	irritant, corrosive	± 5%
Water	None	Up to 100 %

Symbols: Xi
Indication of danger: Irritant
Risk-phrase(s): R36/38, R52

SECTION 3 - HAZARD IDENTIFICATION**Likely routes of exposure:**

Harmful to aquatic organisms. May cause sensitisation by skin contact. May cause severe eye irritation.

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS**Inhalation:**

Remove source of contamination, or move victim to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately if effects persist.

Skin contact:

Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with cold water and non-abrasive soap. Do not rub the skin. If irritation persists, obtain medical attention.

Eye contact:

Immediately flush the eyes with clean, gently flowing cold water for 20 minutes, holding the eyelid(s) open. If irritation persists, obtain medical attention.

Ingestion:Have victim rinse mouth thoroughly with water. **Do not induce vomiting.** If the person is alert, give 3 to 4 glasses of water or milk to drink. Do not give anything to drink to an unconscious or convulsing person. If vomiting does occur, give fluids again. Seek medical advice immediately, showing container and label.**Advice to physician:**

There is no specific antidote. Treat symptomatically and supportively as and when required. Gastric lavage could be contraindicated due to probable mucosal damage.

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SECTION 5 - FIRE-FIGHTING MEASURES

Fire and explosion hazard: Flash point: > 62°C. This material is not flammable.

Extinguishing agents:

Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal.

Fire fighting:

Remove spectators from surrounding area. Remove container from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind.

Personal protective equipment:

Fire may produce irritating or poisonous vapours, mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions:

Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

Environmental precautions:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill:

Keep out unprotected persons and animals. Do not touch spilled material; stop leak if you can do it without risk.

Earth all equipment used when handling the product. Do not touch or walk through spilled material. Stop leak if possible without risk. Avoid runoff of product into sewers, water systems, basements or confined areas as it may cause fire/explosion. A vapour-suppressing foam could be used to reduce vapours. Thoroughly wash body areas, which come into contact with the product.

For spills: Use clean, non-sparking tools to collect absorbed material. Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind.

To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Label drums with its content and dispose it in accordance with local regulations.

Open burning or dumping of this material is prohibited.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling:

Operator should not be alone during handling and application of product. Remove sources of naked flame or sparks. Toxic if swallowed and by skin contact and harmful if inhaled. Avoid contact with eyes and skin and inhalation of fumes. Avoid exposure to spray. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the insecticide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage:

Store in its original container in isolated, dry, cool (avoid temperatures above 32 °C) and well-ventilated area. Avoid cross contamination with other pesticides and fertilisers. Keep under lock and key out of reach of unauthorised persons, children and animals. Store away from incompatible substances. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with. Keep away from naked flames and other sources of ignition.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

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If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

Respirator: It is usually safe to use the product without a mask or respirator. If the product is used in dusty or confined conditions, a mask or respirator suitable for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Clothing: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves: Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection: Wear safety goggles or face shield. **Emergency eye wash:** Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown liquid
Rel. Density (water=1)	1.148 g/m ³ (approx.)
Boiling point:	> 82 deg. C
Freezing point:	< -5 deg. C
pH:	6.8 (approx.)
Vapor pressure:	32 mmHg / 20°C (approx.)
Flash point:	>100°C (TCC)
Water solubility:	Miscible

SECTION 10 - STABILITY AND REACTIVITY**Storage stability:**

Stable for up to 2 years under normal warehouse and field conditions. Avoid contact with strong acids, strong alkalis and alkaline materials such as lime. Avoid heat and sources of ignition.

Hazardous decomposition:

Product undergoes decomposition at high temperatures and will cause toxic fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute oral LD₅₀:	2 000 mg/kg in rats.
Acute dermal LD₅₀:	> 2 000 mg/kg in rats.
Inhalation:	Technical: LC ₅₀ (4 hours): > 2.97 mg/l.
Acute skin irritation:	Irritating to skin (rabbit). Not skin sensitizer.
Acute eye irritation:	Irritating to eyes (rabbit).
Carcinogenicity:	Animal studies did not detect any carcinogenic effects.
Teratogenicity:	Animal studies did not detect any teratogenic effects.
Mutagenicity:	Animal studies did not detect any mutagenic effects.

SECTION 12 - ECOLOGICAL INFORMATION**DEGRADATION & PERSISTENCE:**

Picloram: The major route of degradation is by photolysis and photodegradation. Undergoes microbial degradation in the soil. In soil, the half-life is approximately 30-330 days.

AQUATIC TOXICITY

Picloram: Based on the acid. Slightly toxic to aquatic organisms. Acute oral LC₅₀ for daphnids is reported to be 68 mg/L. Algal toxicity EC₅₀ for green algae is 37mg/L

AVIAN TOXICITY

Picloram: Practically non-toxic to birds. Dietary LC₅₀ for mallard duck is >10mg/kg of diet. Dietary LC₅₀ for bobwhite quail is >10mg/kg in the diet.

OTHER INFORMATION

Material is practically non-toxic to bees on an acute basis.

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SECTION 13 - DISPOSAL CONSIDERATION**Pesticide disposal:**

Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product that cannot be reused or reprocessed should be disposed of in a landfill approved for pesticide disposal. Do not contaminate rivers, dams or any other water sources with the product or used containers. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Comply with local legislation applying to waste disposal.

Package product wastes:

Emptied containers retain vapour and product residues. Observe all labelled safeguards. TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container.

Destroy the emptied containers by perforation and flattening. Bury in an approved dump site. Do not re-use the empty container for any other purpose.

Comply with any local legislation applying to disposal.

SECTION 14 - TRANSPORT INFORMATION

UN NUMBER:	3082
ADR/RID	
Shipping name:	Environmentally hazardous substance, liquid, n.o.s. (picloram 240 g/l a.e.).
Class:	9
Classification code:	M6
Packaging Group:	III
Label:	9
Hazard ID:	90
IMDG/IMO	
Shipping name:	Environmentally hazardous substance, liquid, n.o.s. (picloram 240 g/l a.e.)
Packaging group:	III
Label of class:	9
MARINE POLLUTANT	
Shipping name:	Environmentally hazardous substance, liquid, n.o.s. (picloram 240 g/l a.e.)
AIR/IATA	
Shipping name:	Environmentally hazardous substance, liquid, n.o.s. (picloram 240 g/l a.e.)
Class:	9
Packaging group:	III
Passenger aircraft:	Y914 30 kg; 914 No limit.
Tremcard no:	90GM6-III

SECTION 15 - REGULATORY INFORMATION

Symbol:	Xi
Indication:	Environmentally dangerous substance.
Risk phrases:	
R 36	Irritating to eyes.
R 43	May cause sensitization by skin contact.
Safety phrases:	
S 2	Keep out of reach children.
S 24/25	Avoid contact with skin and eyes.
S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 61	Avoid release to the environment

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SECTION 16 - OTHER INFORMATION

Packaging and Labelling:

Packed in 1, 2, 5, 10, 20 and 25 l fluorinated plastic containers and labelled according to South African regulations and guidelines.

Disclaimer:

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.